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TITLE: VOICE COIL MOTOR

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INVENTOR-INFORMATION:

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ABSTRACT:

PURPOSE: To enlarge an effective range of a gap magnetic field and lengthen a coil stroke, by a method wherein an auxiliary permanent magnet magnetized in the same direction is arranged to one or both of both end surfaces in the movable coil operating direction of the operating permanent magnet.

CONSTITUTION: An operating permanent magnet 3 arranged at least on one side of yoke surfaces opposed in spacing by a gap C is made to function as the main permanent magnet. On the contrary, an auxiliary permanent magnet 4 magnetized in the same direction is arranged to one or both of both end surfaces 30, 30 in



the movable coil operating direction. The direction of the polarity of the auxiliary permanent magnet 4 is so that the polarity of an abutting surface 40 to the end surface of the main permanent magnet becomes the same as that of a magnet pole surface 31 at side of the gap C of the main permanent magnet 3.

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